ANT/SMA/01

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MART

Prince Charles Mountains 1971

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Friday 13th Jan.

Mare Pyramid – White Massif.

White Massif: apparently all charnockite as reported from E. end by Crohn. prominent banding – see photo 54 map – N.B. N [illegible] acid gneiss. Crohn [illegible] at S.E. end.

Mt McKenzie: Immediately NE of summit [illegible] bounded by 2 linear cliffs ? faults. Mt Mac itself appears slightly different from the charnockite to the E.

[illegible]

Unnamed peak N of [illegible]: Medium grained charnockitic granite. NO obvious banding but occasional [illegible] [illegible] [illegible] [illegible] →

near vertical. Strong fracture runs approx. NNW – SSE, with major joint around 2' apart and fractures close set down to [illegible] spacing. A [illegible] [illegible] parallel [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] approx [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] N.W.

continued along ridge to west. Numerous lenses of basic material (amphibolite) aligned parallel to the fracture direction. width from [illegible] [illegible] mostly as rubble
? photo to E. of near vertical banding in the next [illegible].
On summit at W. end, fresh grey-blue charnockitic granite with almandine ~~garnet~~ garnet up to ¾". sample S.T.
fresh [illegible] [illegible] 2" [illegible] [illegible] [illegible] stained [illegible]

S.2. – on descent to narrow covered saddle to 11., white plates, [illegible] 2 [illegible]
Present only among the boulders.

S.3 Most Northerly summit on ridge E of valley separating it from [illegible] [illegible] [illegible]
clear [illegible] garnets [illegible]
sample S.3. patches of breec rocks (S4), some as xenoliths.
Headed along ridge to S, all as [illegible] garnets [illegible]
[illegible]
[illegible]
numerous boulders of grey-blue [illegible] garnets [illegible]

[illegible]
[illegible] sample S 5. – [illegible]
granite, [illegible] garnets
Note [illegible] end of [illegible]
[illegible] ? hybrids are abundant [illegible]
[illegible] dyke.

Saturday PM. on Murray Dome
[illegible] moraine [illegible] plates of [illegible] Mc.
& [illegible] [illegible] [illegible] —
[illegible] area.

5.6. Band of basic rock (sample 5b.)
Trends E-W appears [illegible]
[illegible] [illegible] [illegible]
[illegible] rubble.

Summit Murray Dome: no exposures.

Surface rubble is [illegible] sample 5?
Separate [illegible] [illegible]
[illegible] [illegible]
[illegible] vertical banding [illegible]
apparently approx. E-W.
[illegible] [illegible] appears similar.
N [illegible] [illegible] rubble is
[illegible] in appearance [illegible]
[illegible] [illegible] 8.

Unweathered, banded edge [illegible]
polygons 4–6' across

quartz vein type [illegible]

[illegible] polygons.

SG [illegible]

Loc. SG (see earlier) [illegible]
band [illegible] 20° [illegible]
[illegible] wide
[illegible]
[illegible] polygons.
Below S.G. [illegible]
[illegible]
[illegible] amphibolite [illegible]
[illegible]
[illegible] zone [illegible] the
[illegible] appears to
be [illegible] amphibolite body.

[illegible]
[illegible] polygons [illegible]

Mt McKenzie[?] – pt S9. Wedge.
See map. sample S9.
c.se gr. hornblende granite, no garnets seen. foliation poorly represented, dipping to E approx, strikes parallel to edge of ice, dip 50°-60°. general character similar to that of rocks to east but more altered, a red colour – alteration feldspars, oxidation.

Unable to go via Thomson Massif etc, so continued via Mt Orr[?] etc.

Hall Nunataks – snow covered.
Mt Orr[?] – unable to land, 2 photos from W. & N.E.

Mt Bird – unable to land on northern part & continued on to Mt [illegible] – sampled W side.
Photos – [illegible]

[illegible] behind camp med coarse grained
qtz feldspar gneiss with biotite &
almandine garnet - to be re-examined
later.

(S10) - end of [illegible] ridge. [illegible]
gr [illegible], qtz & felds,
[illegible]
9 [illegible] ~~[illegible]~~
[illegible] strong jointing [illegible]
dominant [illegible]. Weakly defined foliation
parallel to [illegible] gneiss [illegible]
[illegible] immediately [illegible], [illegible] by
[illegible] coloured [illegible] bands
with garnets.

Continuing N along ridge, dip in crest [illegible]
? soft band.

(S11) immediately above camp. General comp.
Similar to S10 but strong foliation.
ENE - WSW [illegible] elongated
foliation emphasised by the [illegible]
garnets. A few thin [illegible] bands of
[illegible] are present.

[illegible] [illegible], [illegible] point [illegible] middle of
[illegible], [illegible] [illegible], [illegible] [illegible] like
[illegible] [illegible] [illegible] 70-80° [illegible],
[illegible] [illegible] qtz feld. garnet gneiss
[illegible] [illegible] [illegible] [illegible],
foliated. garnet [illegible] gneiss (S.12)
and [illegible] [illegible] (S13) The [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] bands of
qtz/feld gneiss. Bands are [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible].
[illegible] [illegible] [illegible] [illegible]. The
[illegible] bands are slightly [illegible] [illegible]
[illegible].

S.14. Top peak immediately S. of col. Qtz feld. gar.
gneiss. foliation not [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]. On [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible].

S1.5. slope from col up to [illegible] [illegible] [illegible]

basic bands location [illegible]

[illegible]

[illegible] [illegible] [illegible] [illegible] d [illegible]

resistant [illegible], shifting of pre-existing [illegible] L in expressed by [illegible]

[illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] eg.

[illegible]

f[illegible] [illegible] [illegible] [illegible] Sancai

[illegible] [illegible] [illegible] [illegible]

[illegible] 1½ [illegible]

[illegible]

[illegible] white

[illegible] [illegible] [illegible]

green [illegible].

Samit [illegible] 5.15 - [illegible] fold [illegible]

[illegible]

[illegible]

[illegible] [illegible] [illegible]

[illegible]

[illegible] upto [illegible]

[illegible] [illegible]

[illegible]

A few fold [illegible] are apparent [illegible]

[illegible] [illegible]

[illegible] [illegible] edge

Along main ridge, lithologies as before, foliated [illegible] gar. gneiss; poorly foliated [illegible] more [illegible] ; [illegible]

5.20 [illegible] , foliated [illegible] gneiss [illegible] [illegible] [illegible] [illegible]

area [illegible] [illegible]

5.21 – basic [illegible] gr. rock, ? metadyke. [illegible]

Along ridge [illegible] basic [illegible] [illegible] [illegible] [illegible] 60 [illegible]

New film – 2nd [illegible] [illegible] [illegible]

[illegible] fold [illegible] [illegible] view looking [illegible] [illegible]

→
→

Tuesday 2nd Oct.

[illegible] composite for Mt [illegible] / [illegible]
Nuddeland Mt ~~[illegible]~~ Granite A no [illegible]
[illegible] of.

Mt Alleb's. Massive partly foliated
[illegible]

[illegible] south [illegible]

[illegible]

South to Mt Bud. – Pt [illegible] 26. –
well bedded qtz feld, [illegible]
[illegible]
Continued to [illegible]
[illegible]
[illegible]
[illegible]
[illegible]

2.15 E. [illegible] Mt Hvit

Had [illegible] [illegible] [illegible] [illegible] [illegible]
lithology similar to Mt Hvit (Sx2),
strike approx [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] of [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
~~add~~ up a few [illegible] [illegible] patch
[illegible] [illegible] [illegible]

Approaching [illegible] Mt Rock – Virtually
no exposure [illegible] [illegible] rubble.
Bruddehurt [illegible] [illegible] [illegible] but
[illegible] [illegible] strike at landing
[illegible] [illegible] photo
Pugler Platten – partly exposed,
[illegible] [illegible] [illegible] [illegible] [illegible]
at N.W. end.
D'[illegible] Ridge – [illegible] NW [illegible]
[illegible] [illegible] [illegible] [illegible],
[illegible] partly exposed [illegible] [illegible]

[illegible] ... taylor near [illegible]

S. 26. Basalt dyke (porphyritic) [illegible] [illegible] [illegible] [illegible] S. 25.

[illegible] to Summit [illegible] block.

Summit - S 27, 28, 29. Black [illegible] [illegible] [illegible]

Pegmatite dyke [illegible] [illegible], N [illegible]. [illegible] this to [illegible]. [illegible] granite and [illegible] (29) [illegible] 28 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] typical [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible]

The [illegible]

[illegible]

In [illegible] they are [illegible] parallel to [illegible]

[illegible] summit.

~~[illegible]~~

S 30 N. E [illegible]

[illegible]

Below summit, to S. E. [illegible]

[illegible]

S 32 13 – [illegible]

[illegible]

S 3 6. [illegible]

[illegible]

[illegible] canyon.
wind 30-35 [illegible] below.
[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

In late evening, [illegible]
[illegible] Ridge [illegible]
[illegible]
[illegible]
[illegible]
[illegible] bridge.
[illegible]
[illegible]
[illegible] the
[illegible]

Note [illegible]
[illegible]
[illegible] Taylor [illegible]
[illegible]

[illegible]

[illegible]

Started [illegible]
[illegible] at
this point appears [illegible]
[illegible]
[illegible]
[illegible])
Photo [illegible]

[illegible]

[illegible] Ridge

[illegible]

Manning Massif

[illegible] irregular [illegible]

[illegible]

2 photos from [illegible]

[illegible]

S40 — ? fold locality — [illegible]

[illegible]

[illegible]

[illegible]

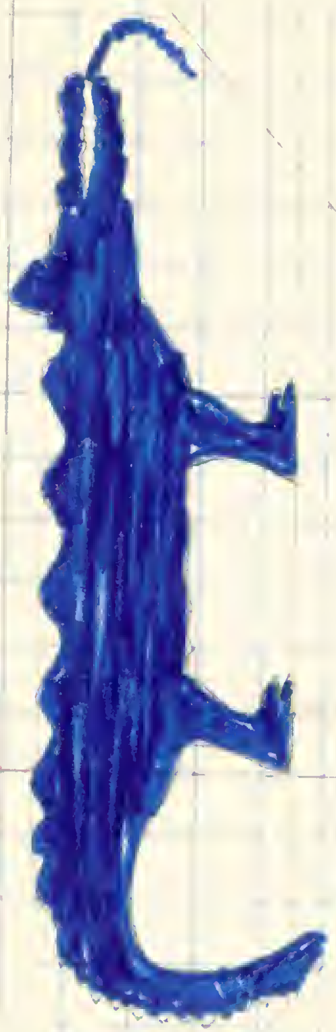
Med.-csc gr. granite [illegible]

[illegible]

[illegible]

[illegible]

pcg. bands 6" to 12' wide



1971 PCM F.U.

P[illegible] 9.h

YIWEZ YIGLO

YI~~Z~~SLV WUYHU

WUYPA ARALUEZ

W

W 20-25 YACLE YO

Light [illegible]

Nana [illegible]

McWilling [illegible]